```
=> s l3
L4           4 L3

=> d abs fbib fhitstr 1-4

L4   ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2009 ACS on STN
AB   Aqueous gel formulations, including an immune response modifier (IRM), such as
     those chosen from imidazoquinoline amines, tetrahydroimidazoquinoline
     amines, imidazopyridine amines, 6,7-fused cycloalkylimidazopyridine
     amines, 1,2 -bridged imidazoquinoline amines, imidazonaphthyridine amines,
     imidazotetrahydronaphthyridine amines, oxazoloquinoline amines,
     thiazoloquinoline amines, oxazolopyridine amines, thiazolopyridine amines,
     oxazolonaphthyridine amines, thiazolonaphthyridine amines,
     pyrazolopyridine amines, pyrazoloquinoline amines,
     tetrahydropyrazoloquinoline amines, pyrazolonaphthyridine amines,
     tetrahydropyrazolonaphthyridine amines, and 1 H-imidazo dimers fused to
     pyridine amines, quinoline amines, tetrahydroquinoline amines,
     naphthyridine amines, or tetrahydronaphthyridine amines, are provided.
     Methods of use and kits are also provided.  For example, gel was prepared
     containing 4-(4-amino-2-propyl-1H-imidazo[4,5-c]quinolin-1-yl)-N-
     propylbutyramide 0.1%, 0.25N ethanesulfonic acid 0.594%, Carbomer 974P
     2.1%, propylene glycol 15%, methylparaben 0.15%, propylparaben 0.03%,
     edetate disodium 0.05%, 20% tromethamine solution 1.5% and purified water
     80.48%.
AN   2006:795800  CAPLUS
DN   145:235790
TI   Aqueous gel formulations containing immune response modifiers
IN   Ma, David Q.; Perman, Christopher S.; Skwierczynski, Raymond D.
PA   3M Innovative Properties Company, USA
SO   PCT Int. Appl., 123pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
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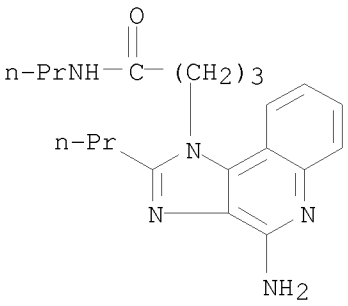
IT 866649-05-0
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(aqueous gel formulations containing immune response modifiers)

RN 866649-05-0 CAPLUS

CN 1H-Imidazo[4,5-c]quinoline-1-butanamide, 4-amino-N,2-dipropyl- (CA INDEX NAME)



L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

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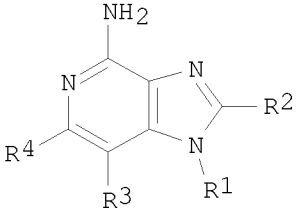

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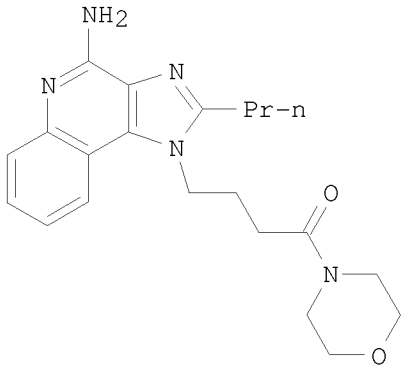

II

AB Title compds. I [R1 = amide linked via alkyl, alkylene, or alkylalkylene; R2 = H or a non-interfering substituent; R3 and R4 independently = H, halo, alkyl, alkoxy, etc.], pharmaceutical compns. containing the compds., intermediates, and methods of making and methods of use of these compds. as immunomodulators, for modulating cytokine biosynthesis in animals and in the treatment of diseases including viral and neoplastic diseases are disclosed. Thus, e.g., II was prepared by amidation of Et 4-(2-propyl-1H-imidazo[4,5-c]quinolin-1-yl)butanoate (preparation given) with morpholine and subsequent oxidation/amination. Methods are described for assaying cytokine induction (no data).

AN 2005:1103493 CAPLUS

DN 143:387036

TI Preparation of amide-substituted imidazopyridines, imidazoquinolines, and imidazonaphthyridines

IN Krepski, Larry R.; Dellaria, Joseph F., Jr.; Duffy, Daniel E.; Amos, David T.; Zimmermann, Bernhard M.; Moser, William H.

PA 3M Innovative Properties Company, USA

SO PCT Int. Appl., 234 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | | DATE |
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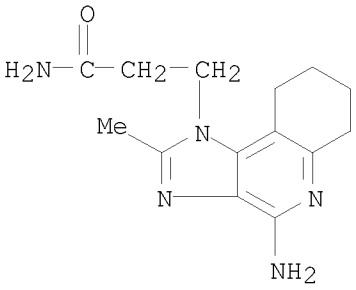
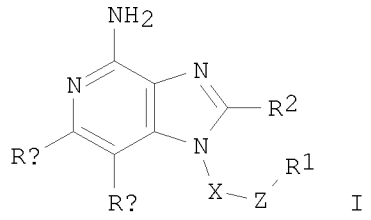
OS CASREACT 143:387036; MARPAT 143:387036
IT 1026064-56-1
RL: PRPH (Prophetic)
(Preparation of amide-substituted imidazopyridines, imidazoquinolines, and imidazonaphthyridines)
RN 1026064-56-1 CAPLUS
CN 1H-Imidazo[4,5-c]quinoline-1-propanamide, 4-amino-6,7,8,9-tetrahydro-2-methyl- (CA INDEX NAME)



RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
GI



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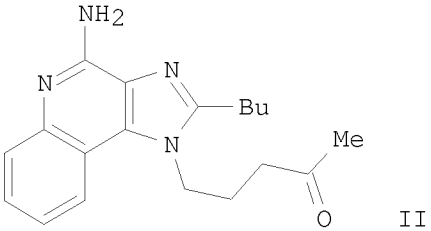

II

AB Title compds. [I; X = alkylene optionally interrupted by one or more -O-; Z = C:O, - C(:O)O-, -C(OR3)2-; R1 = H, (un)substituted alkyl, alkylene/aryl, alkylene/heteroaryl; Q = O, S; R3 = (un)substituted alkyl, alkylene/aryl, alkylene/heteroaryl; R2 = H, (un)substituted alk(en/yn)yl, hetero/aryl, alkylenealkyl, etc.; RA, RB = independently H, halo, alk(en)yl, alkoxy, alkylthio, NH2 and derivs.; or RACCRB = (un)substituted fused aryl ring or fused 5-7-membered saturated ring; and their pharmaceutically acceptable salts], were prepared as immunomodulators for inducing cytokine biosynthesis in animals and in the treatment of diseases including viral and neoplastic diseases. For example, II was prepared by reacting 4-(2-Butyl-1H-imidazo[4,5-c]quinolin-1-yl)butyraldehyde (preparation given) with MeMgBr, followed by oxidation, reductive amination of the ketone, oxidation with m-CPBA/reaction with NH4OH. I have been found to induce cytokine biosynthesis by inhibiting production of tumor necrosis factor TNF-α when tested on an in vitro human blood cell system (no data).

AN 2005:490270 CAPLUS

DN 143:26611

TI Preparation of oxime substituted imidazo-containing compounds, particularly imidazoquinolines, as inducers of cytokine biosynthesis for treatment of viral and neoplastic diseases

IN Krepski, Larry R.; Dellaria, Joseph F., Jr.; Duffy, Daniel E.; Radmer, Matthew R.; Amos, David T.

PA 3M Innovative Properties Company, USA

SO PCT Int. Appl., 200 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| | WO 2005051317 | A3 | 20060511 | | |

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| | | | | WO 2004-US39512 | W | 20041124 |
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PATENT FAMILY INFORMATION:
FAN 2005:493478

| | PATENT NO. | KIND | DATE | APPLICATION NO. | | DATE |
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| | ZA 2006005216 | A | 20070425 | ZA 2006-5216 | | 20060623 |
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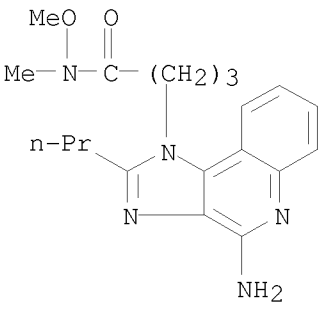
| OS | CASREACT 143:26611; MARPAT 143:26611 | | | | | |

IT 845638-60-0P, 4-(4-Amino-2-propyl-1H-imidazo[4,5-c]quinolin-1-yl)-N-methoxy-N-methylbutyramide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of oxime substituted imidazoquinolines as inducers of cytokine biosynthesis for treatment of viral and neoplastic disease)
RN 845638-60-0 CAPLUS
CN 1H-Imidazo[4,5-c]quinoline-1-butanamide, 4-amino-N-methoxy-N-methyl-2-propyl- (CA INDEX NAME)



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RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
AB Pharmaceutical formulations in an aqueous (preferably, sprayable) formulation including an immune response modifier (IRM), such as those chosen from imidazoquinoline amines, tetrahydroimidazoquinoline amines, imidazopyridine amines, 6,7-fused cycloalkylimidazopyridine amines, 1,2-bridged imidazoquinoline amines, imidazonaphthyridine amines, imidazotetrahydronaphthyridine amines, oxazoloquinoline amines, thiazoloquinoline amines, oxazolopyridine amines, thiazolopyridine amines, oxazolonaphthyridine amines, thiazolonaphthyridine amines, and 1H-imidazo dimers fused to pyridine amines, quinoline amines, tetrahydroquinoline amines, naphthyridine amines, or tetrahydronaphthyridine amines, are provided. In one embodiment, the aqueous formulations are advantageous for treatment and/or prevention of allergic rhinitis, viral infections, sinusitis, and asthma. For example, N-[2-[4-amino-2-(ethoxymethyl)-1H-imidazo[4,5-c]quinolin-1-yl]-1,1-dimethylethyl]methanesulfonamide (IRM 1) was prepared as a 0.375% aqueous solution
capable of being nasally administered via a spray pump. The solution contained IRM 1 0.375%, CM-cellulose sodium 0.1%, benzalkonium chloride 0.02%, disodium EDTA 0.1%, L-lactic acid 1.53%, PEG 400 15%, 1N NaOH as needed for pH 4.0, and water to 100%. The IRM 1 solution (50 μL) administered to rats once 4 h before infection with humanized, non-lethal influenza virus, almost completely suppressed the virus. titer.
AN 2005:160991 CAPLUS
DN 142:246181
TI Formulations containing an amine-based immune response modifier

IN Hammerbeck, David M.; Guy, Cynthia A.; Leung, Suzanne S.
PA 3M Innovative Properties Company, USA
SO PCT Int. Appl., 118 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | | DATE |
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| PI | WO 2005016275 | A2 | 20050224 | WO 2004-US25277 | | 20040805 |
| | WO 2005016275 | A3 | 20050414 | | | |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | | |
| | RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | | |
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PATENT FAMILY INFORMATION:
FAN 2005:158509

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
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SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR

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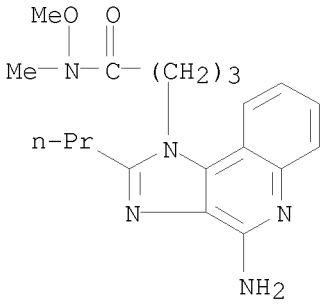
| | | | WO 2004-US25241 | W 20040805 |

IT 845638-60-0
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(solns. containing amine-based immunomodulators)
RN 845638-60-0 CAPLUS
CN 1H-Imidazo[4,5-c]quinoline-1-butanamide,
4-amino-N-methoxy-N-methyl-2-propyl- (CA INDEX NAME)

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